IU SITE VISIT DATA SHEET

INSTRUCTIONS: Record observations made during the IU site visit. Provide as much detail as possible.							
Name of industry: Lancaster Oil Company/Environmental Recovery Corporation							
Address of industry: 1076 Old Manheim Pike, Lancaster, PA 17601							
Date of visit: September 23, 2014			Time of visit: 11:20 a.m.				
Name of inspectors: Mark Leonard, City of Lancaster Christine Volkay-Hilditch, City of Lancaster Lynn Kurth, Tetra Tech Inc. Josh Balentine, Tetra Tech Inc.							
Provide the name(s) and title(s) of industry representative(s)							
Name			**Title**				
Kermit Burkholder			Director of Research and Development				
Peter Haiges			VP of Operations				
R. Michael Mulrine, Jr.			Environmental Manager				
Kenneth LeFever			President				
IU Permit Number: 1072		Exp. Date: August 21, 2019		IU Classification: 40 CFR 437, Subpart B			
Inspection Type/Purpose	√	Scheduled		Unscheduled	√	PCA	
		PCI		New Company		Complaint	
Please provide the following documentation:							
1. Nature of operation: The facility is a centralized waste treater that specializes in treating industrial coolants, cut oils, oil/waste mixtures. It does not accept grease or crank case oil, hazardous waste, or fracking wastewater. Some reclaimed oil is sold as blended fuel for heating oil. The CWT treats an average of 85,000 gallons of liquid material a day and solidifies approximately 140 tons of material. For stabilizing/ solidifying the waste product the facility uses saw dust or recycled horse bedding. The CWT is currently studying the use of a new light and absorbent plant stock for use for stabilization. Stabilized waste is sent to incinerator and landfills.							
2. Number of employees:	74	Number of shifts:	1.5	Hours of operation:	M-F 7am-9pm		
3. Water source:							
4. Wastestream flow(s) discharged to the POTW: The wastestream discharged to the City includes treated hauled nonhazardous wastewater. What cannot be treated to discharge to the City is treated and stabilized and sent to the landfill or incinerated.							
Sanitary:	(gpd)	Process:	Approx. 60,000 gpd	Combined:	(gpd)		
5. Describe any significant changes in process or flow: Biochemical oxygen demand levels of treated wastewater have decreased.							
6. Type of pretreatment system (Describe): Pretreatment consists of flocculation, dissolved air flotation (DAF), clarification, neutralization, and filter press.							
√	Continuous flow		Batch		Combined		

IU SITE VISIT DATA SHEET (Continued)

7. Condition/operation of pretreatment system:	√	Good		Fair		Poor

8. Process area description (identify raw materials and processes used):
Waste haulers and the CIU's own trucks haul wastewater in tanker trucks or barrels and discharge to sumps. The CWTs basic hauled wastewater treatment consists of treatment with cationic polymer, electrolysis, sodium sulfate, DAF and anionic polymer to achieve pH of 8 standard units (s.u.) There is often a problem with molybdenum so waste is often treated with ferric chloride to drop the pH to 4.5 s.u. Clay is added in the second DAF to remove molybdenum. Then carbomates are added to polish off metals and raise the pH to 9.5. For emulsion wastewater where oil and water are mixed and do not separate, pH is adjusted, and the waste is heated to break it up prior to treatment. If the waste is high in metals then standard treatment is used, then the CWT batch treats it to precipitate metals out, then it is filter pressed, then back through basic treatment.

The CWT samples every truck and conducts a treatability study to determine whether it is treatable at the facility, what type of treatment is necessary and to determine the waste's flashpoint.
The entire treatment area is contained there are no sumps or drains.

9. Condition/operation of process area:	√	Good		Fair		Poor
General housekeeping:	√	Good		Fair		Poor

10. Chemical storage area (identify the chemicals that are maintained on site and how they are stored):
Chemicals that are stored are for lab use and include acetone, toluene, argon and helium.

Any floor drains?	No	Any spill control measures?	No drains.

11. Are hazardous wastes drummed and labeled? Yes.

12. Does the IU have hazardous waste manifests? Yes. Stored in drums with secondary containment. Hauled off every 180 days, approximately 6 drums of lab waste a year hauled offsite.

Any problems associated with hazardous waste: No

13. Solid waste production: Filter cage. Approximately 2 roll-off trucks (20 feet long) per year.

Solid waste disposal method(s): Goods Transportation hauls to landfill

14. Description of sample location: Tank after pretreatment.

Sampling method/technique: Grabs/composites

15. Evaluation of self-monitoring data:		Yes	√	No		N/A

If yes, was self-monitoring adequate:

16. Who performs the self-monitoring analysis? CIU and ERC Labs for inhouse treatability studies.

Notes:

No deficiencies were noted during the site visit.